Atlona HD/SD-SDI to HDMI-DVI-YPbPr-RGBHV Converter

AT-HDSDI-AV

User Manual

http://www.atlona.com

Safety and Notice

Atlona **AT-HDSDI-AV HD-SD/SDI to HDMI-DVI-YPbPr-Composite-RGBHV Converter** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, AT-HDSDI-AV should be used with care. Please read and follow the safety instructions to protect yourself form possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

Introduction

Atlona AT-HDSDI-AV provides high quality 12 bit conversion between SDI digital video input and HDMI / DVI digital video output or YPbPr / Composite (CVBS) / RGBHV analog video output. Plus, with an extra DVI output through HDMI type A connector, users can have pure digital video transmission path without analog conversion distortion. The AT-HDSDI-AV supports both SD-SDI and HD-SDI formats (SMPTE 259M, SMPTE 292M, and SMPTE 296M), and also features 2 equalized SDI loop out.

Features

- Excellent quality 12-bit D/A conversion
- Supported high-definition (HD) formats:
  1080i @50/59.94/60Hz, 1035i @50/59.94/60Hz, 720p @50/59.94/60Hz
- Supported standard-definition (SD) formats:
  NTSC @59.94Hz, PAL @50Hz
- Default SDI / YPbPr / DVI Patterns
- Auto HD/SD-SDI detection
- 2 Equalized loop output
- Easy installation
- SD output: HDMI (video only) / DVI / YPbPr
- HD output: HDMI (video only) / DVI / YPbPr / RGBHV
- External DIP Switch Configuration

Package Contents

- 1x AT-HDSDI-AV
- 1x 5V 4A power adapter
- 1x User Manual
- 1x VGA to YPbPr adapter
- 1x HDMI to DVI adapter

Technical Specifications

- Video Bandwidth: 270 Mbps

  1.485 Gbps, 1.485/1.001Gbps
- Input signal: HD/SD-SDI (SMPTE 259M / SMPTE 292M / SMPTE 296M)
- Output signal: HDMI (video only) / DVI / YPbPr / RGBHV
- Input transmission range: up to 150m / 500ft at HD-SDI or 300m / 1000ft at SD-SDI
- Loop out: 2 equalized SDI output
- Power Supply: 5V 4A DC
- Dimensions: 120mm x 110mm x 25mm / 4.7”x4.3”x1” (L x W x H)
- Weight: 420g / 15oz

HD INPUT		YPbPr OUT
525p @ 59.94Hz	SMPTE 293M, ITU-BT.1358	
625p @ 50Hz	ITU-BT.1358	
720p @ 50Hz	SMPTE 296M -3	O
720p @ 60 / 59.94Hz	SMPTE 296M -1, -2	O
1080i @ 25Hz	SMPTE 274M -6	O
1080i @ 30 / 29.97Hz	SMPTE 274M -4, -5	O
1080p @ 24 / 23.98Hz	SMPTE 274M -10, -11	O
1080p @ 25Hz	SMPTE 274M -9	O
1080p @ 30 / 29.97Hz	SMPTE 274M -7, -8	O
SD INPUT		
NTSC		O
PAL B,D,G,H,I		O

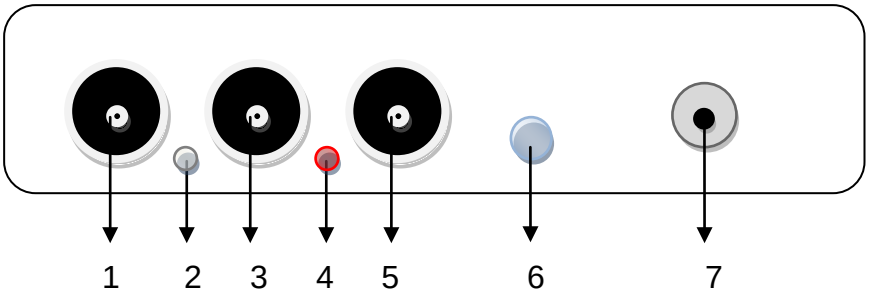
HD INPUT		DVI /HDMI OUT
525P @ 59.94Hz	SMPTE 293M, ITU-BT.1358	
625P @ 50Hz	ITU-BT.1358	
720P @ 50Hz	SMPTE 296M -3	O
720P @ 60 / 59.94Hz	SMPTE 296M -1, -2	O
1080i @ 25Hz	SMPTE 274M -6	O
1080i @ 30 / 29.97Hz	SMPTE 274M -4, -5	O
1080p @ 24 / 23.98Hz	SMPTE 274M -10, -11	O
1080p @ 25Hz	SMPTE 274M -9	O
1080p @ 30 / 29.97Hz	SMPTE 274M -7, -8	O
SD INPUT		
NTSC		O
PAL B,D,G,H,I		O

HD INPUT		VGA OUT
525p @ 59.94Hz	SMPTE 293M, ITU-BT.1358	
625p @ 50Hz	ITU-BT.1358	
720p @ 50Hz	SMPTE 296M -3	O
720p @ 60 / 59.94Hz	SMPTE 296M -1, -2	O
1080i @ 25Hz	SMPTE 274M -6	
1080i @ 30 / 29.97Hz	SMPTE 274M -4, -5	
1080p @ 24 / 23.98Hz	SMPTE 274M -10, -11	
1080p @ 25Hz	SMPTE 274M -9	
1080p @ 30 / 29.97Hz	SMPTE 274M -7, -8	
SD INPUT		
NTSC		
PAL B,D,G,H,I		

HD INPUT		Composite OUT
525p @ 59.94Hz	SMPTE 293M, ITU-BT.1358	
625p @ 50Hz	ITU-BT.1358	
720p @ 50Hz	SMPTE 296M -3	
720p @ 60 / 59.94Hz	SMPTE 296M -1, -2	
1080i @ 25Hz	SMPTE 274M -6	
1080i @ 30 / 29.97Hz	SMPTE 274M -4, -5	
1080p @ 24 / 23.98Hz	SMPTE 274M -10, -11	
1080p @ 25Hz	SMPTE 274M -9	
1080p @ 30 / 29.97Hz	SMPTE 274M -7, -8	
SD INPUT		
NTSC		O
PAL B,D,G,H,I		O

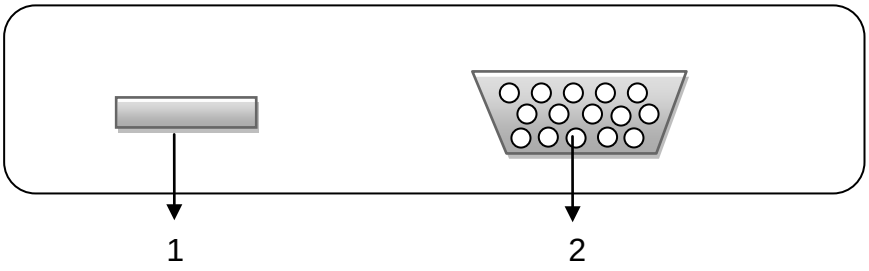
Panel Descriptions

Front Panel



1. HD/SD-SDI Input
2. HD/SD Bi-Color LED
   Green: HD
   Orange: SD
3. HD/SD-SDI Output 1
4. Power Indicator
5. HD/SD-SDI Output 2
6. IR Receiver (reserved)
7. 5V Power

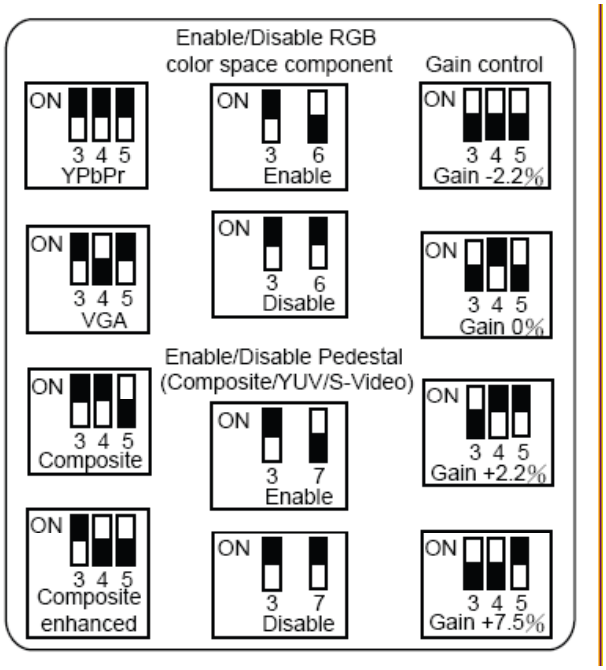
Rear Panel

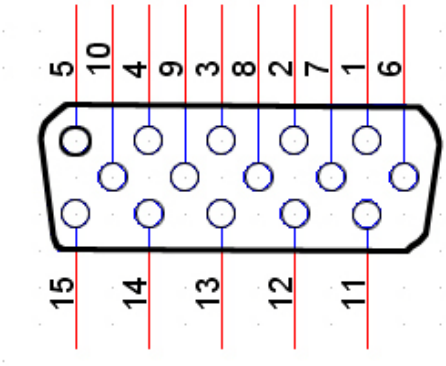


1. HDMI Output
2. YPbPr / RGB Output

Bottom

An 8-pin DIP switch is used for user interface, and users can access this switch from the bottom of the unit. Output formats, video patterns, SD Pedestal, SD Wide, PAL mode, YPbPr / RGB, SD component or SD composite, YC on/off etc.





Pin 1	Pr / Red	Pin 9	+5 V
Pin 2	Y / Green / Composite	Pin 10	Ground
Pin 3	Pb / Blue	Pin 11	Ground
Pin 4	Ground	Pin 12	Reserved
Pin 5	Ground	Pin 13	Horizontal Sync
Pin 6	Ground	Pin 14	Vertical Sync
Pin 7	Ground	Pin 15	Reserved
Pin 8	Ground		

Limited Warranty

Atlona warrants the **AT-HDSDI-AV HD/SD-SDI to HDMI-DVI-YPbPr-RGBHV Converter** to be free from defects in the material and workmanship for 1 year from the date of purchase from Atlona or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, Atlona, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surges.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the buyer. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

The content of this manual has been carefully checked and is believed to be accurate. However, Atlona assumes no responsibility for any inaccuracies that may be contained in this manual. Atlona will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the AT-HDSDI-AV features and specifications is subject to change without further notice.